

ABSTRACT

A hydrogen permeable membrane (10) for selectively allowing hydrogen to permeate therethrough includes a metal base layer (12) containing vanadium (V), a metal coating 5 layer (16) containing palladium (Pd), and an intermediate layer (14) that is formed between the metal base layer (12) and the metal coating layer (16) and made of a metal having a higher melting point than the metal base layer (12) and the metal coating layer (16) and possessing hydrogen permeability.

10 Selected Drawing: FIG. 1